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SOVIET PLOWS, CULTIVATORS

PROCESS PEAT FOR FERTILIZING -- Moscow, Mashinno-Traktornaya Stantsiya, Apr 53

Machines, normally used in agriculture, are used to process peat intended for fertilizing purposes. Smoothing hillocks off the peat field is done by the LBD-4.5 stubble-bottom plow. Plowing of the peat deposit to a depth of 25 to 30 centimeters is done by the K-312-D plow, and plowing to a depth of 35 to 40 centimeters is done by the PKB-56 plow. The plowed peat is gone over with the BD-3.4 disk harrow. The BD-3.4 harrow pulverizes peat to a depth of 8 or 10 centimeters, and the unpulverized layer below is turned up to the surface by the UIK cultivator and gone over by the BD-3.4 harrow. To break up the peat into 5- to 10-millimeter size pieces, the BD-3.4 disk harrow with zigzag harrows attached to it is used. -- I. Teregulov, engineer

SPECIAL PLOWS FOR ORCHARDS -- Moscow, Mashinno-Traktornaya Stantsiya, Jun 53

The agricultural machinery industry is producing PLS-5-25 and PS-3-30 plows for orchards. The PLS-5-25 paring plow is used for plowing areas close to the tree trunks to a depth of 16 or 18 centimeters. The PS-3-30 plow is used for plowing between trees to depths of up to 25 centimeters. Both plows are drawn by the KD-35 tractor.

NEW MOUNTED MACHINES FOR THE MTZ-36 BELARUS' TRACTOR -- Moscow, Sel'khoz mashina, Jul 53

The SKB (Special Design Bureau) of the Odessa Plant imeni Oktyabr'skaya Revolyutsiya has designed the FN-3-35 plow and the KRN-2.5 cultivator for use with the Belarus' tractor. Ten FN-3-35 plows and ten KRN-2.5 cultivators were distributed among various machine-testing stations in 1952 for field tests. As a result of these tests, the FN-3-35 plow and the KRN-2.5 cultivator have been recommended for series production.

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The PN-3-35 plow is a tractor-mounted three-bottom plow. It can also be used as a two-bottom plow with the VTZ-24 tractor.

Over-All Dimensions of the PN-3-35 Plow

Length	260 cm
Width	138 cm
Height	115 cm
Maximum plowing depth	27 cm
Plowing width of each bottom	35 cm
Plowing width of the plow	105 cm
Weight of the plow	400 kg (approximately)

Over-All Dimensions of the KRN-2.5 Cultivator

Length	98 cm
Width	270 cm
Height	112 cm
Maximum soil-loosening depth	25 cm
Maximum cultivating depth	10 to 16 cm
Width of cultivator tooth	6 cm
Width of pointed cultivating tool	39 cm
Weight of the cultivator	400 kg (approximately)

PRODUCE TWO-WAY PLOWS -- Tashkent, Pravda Vostoka, 11 Sep 53

The Chirchik Chirchiksel'mash Plant has started series production of POD-23 horse-drawn two-way plows.

CULTIVATORS FOR SUGAR BEET GROWING -- Moscow, Mashinno-Traktornaya Stantsiya, Mar 53

KP-4, KUTS-4.2, 2KUTS-2.8, KPS-5.4, and other cultivators have been used extensively in the cultivation of sugar beet. In 1953 the MTS were supplied with the new KPS-5.4 and KN-5.4 cultivators. So that operation of the SKEM-3 sugar beet combine may not be impeded, the spacings between rows must not be made too narrow. Wide use of harrowers and planters must be made. During planting the planters must operate continuously. Arrangements must be made to provide reliefs for operators during lunch time and to continue the work of planting. -- Ye. Korenchenko, engineer

USE CULTIVATORS -- Moscow, Mashinno-Traktornaya Stantsiya, Mar 53

The Staro-Beshovskaya MTS in Stalinskaya Oblast makes extensive use of cultivators.

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The KP-3 cultivator is used in preparing soil for winter wheat. After initial plowing, the soil undergoes several cultivations, the last three of which are done by the KP-3 cultivator.

A KUTS-4.2 cultivator, drawn by the U-2 tractor, cultivated 26 hectares in one shift instead of the 10 hectares called for by the norm. -- P. Angelina

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